

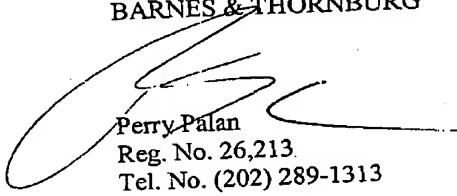
Application No. 10/087,906
Attorney Docket No. 566/39038
Page 2

become evident that they are allowable over the art for the reasons stated above and, thus,
passage of this case to issue is respectfully solicited.

It is respectfully requested that, if necessary to effect a timely response, this paper be
considered as a Petition for an Extension of Time sufficient to effect a timely response and
shortages in other fees be charged, or any overpayment in fees be credited, to the Account of
Barnes & Thornburg, Deposit Account No. 02-1010 (566/39038).

Respectfully submitted,

BARNES & THORNBURG


Perry Palan
Reg. No. 26,213
Tel. No. (202) 289-1313

Enclosure

75653v1

Application No. 10/087,906
Attorney Docket No. 566/39038
Page 3

CLAIM SUMMARY DOCUMENT

1. (Presently Amended) A vehicle brake system comprising:
at least two wheel speed sensors assigned to measure a speed of each wheel or a
single common speed of each wheel group whose speed is to be measured;
an electronic unit for analyzing signals from the wheel sensors to instantaneously
select the signals from one of the wheel sensors and determining a reference speed
approximating the actual vehicle speed using the selected signals; and
the electronic unit selecting the one wheel sensor as a function of the actual driving
condition and at least one defined speed criterion.
2. (Original) The vehicle brake system according to Claim 1, wherein there are
only two wheel sensors provided for each wheel or wheel group whose speed is to be
measured.
3. (Original) The vehicle brake system according to Claim 1, wherein for a
braked vehicle, the wheel sensor which indicates the second-highest wheel speed is selected.
4. (Original) The vehicle brake system according to Claim 1, wherein for an
unbraked vehicle, the wheel sensor which indicates the second-lowest wheel speed is
selected.
5. (Original) The vehicle brake system according to Claim 1, wherein one sensor
for each wheel or group of wheels is initially selected using a first speed criterion; and one of
the initially selected sensors is finally selected, using a second speed criterion, and used to
determine the reference speed.
6. (Original) The vehicle brake system according to Claim 5, characterized in
that the first and the second speed criterion are in each case an extreme-value criterion.
7. (Previously Presented) The vehicle brake system according to Claim 5,
wherein for a braked vehicle, the wheel sensor with the minimal wheel speed is initially

Application No. 10/087,906
Attorney Docket No. 566/39038
Page 4

selected from the respectively at least two wheel sensors assigned to each wheel or wheel group; and the initially selected sensor having the maximal speed is finally selected.

8. (Previously Presented) The vehicle brake system according to Claim 5, wherein for an unbraked vehicle, the wheel sensor with the maximal wheel speed is initially selected from the respectively at least two wheel sensors assigned to each wheel or wheel group; and the initially selected sensor having the minimal speed is finally selected.

9. (Original) The vehicle brake system according to Claim 1, wherein the electronic unit is an ABS/ASR control unit.

10. (Original) The vehicle brake system according to Claim 9, wherein for an ABS control intervention of the brake pressure control of a wheel or of a wheel group, a higher speed of the speeds supplied by the at least two assigned wheel sensors is used as a basis when a protection against an erroneous reduction of the brake force has the highest priority.

11. (Original) The vehicle brake system according to Claim 9, wherein for an ABS control intervention of the brake pressure control of a wheel or of a wheel group, a lower speed of the speeds supplied by the at least two assigned wheel sensors is used as a basis when a protection against a locking of the wheel or of the wheel group has the highest priority.

12. (Original) The vehicle brake system according to Claim 9, wherein for an ASR control intervention of the brake pressure control of a wheel or of a wheel group, a lower speed of the speeds supplied by the at least two assigned wheel sensors is used as a basis when a protection against an erroneous reduction of the traction force at the wheel or the wheel group has the highest priority.

13. (Original) The vehicle brake system according to Claim 9, wherein for an ASR control intervention of the brake pressure control of a wheel or of a wheel group, a higher speed of the speeds supplied by the at least two assigned wheel sensors is used as a

Application No. 10/087,906
Attorney Docket No. 566/39038
Page 5

basis when a protection against a spinning of a wheel or of the wheel group has the highest priority.

14. (Previously Presented) The vehicle brake system according to Claim 1, including a plausibility checking device which subjects the signals supplied by the wheel speed sensors to a plausibility check; and wherein the electronic unit does not consider sensors which supply signals that do not pass the plausibility check.

15. (Previously Presented) The vehicle brake system according to Claim 1, wherein for a braked vehicle, the wheel sensor with the minimal wheel speed is initially selected from the respectively at least two wheel sensors assigned to each wheel or wheel group; and the initially selected sensor having the maximal speed is finally selected.

16. (Previously Presented) The vehicle brake system according to Claim 1, wherein for an unbraked vehicle, the wheel sensor with the maximal wheel speed is initially selected from the respectively at least two wheel sensors assigned to each wheel or wheel group; and the initially selected sensor having the minimal speed is finally selected.